

We claim:

1. A fuel composition for colored flames comprising 0.1~6 %
by weight of a coloring agent, 75~90% by weight of fuel or
5 fuel mixture comprising alcohol and/or amine, 2~20% of
additive comprising ester bond and 2~10 % by weight of a
fire power enhancer having at least 3 carbons.
2. A fuel composition for colored flames according to claim
10 1, wherein the fuel is selected from methanol, ethanol or
propanol.
3. A fuel composition for colored flames according to claim
1, wherein the fuel mixture comprises 45~55% by weight of
15 methanol and 25 to 40% by weight of ethanol.
4. A fuel composition for colored flames according to claim
3, wherein the fuel mixture further comprises 2 to 10% by
weight of propanol.
- 20 5. A fuel composition for colored flames according to any
one of claims 1 to 4, wherein the fuel mixture comprises
0.1~30% by weight of amine, and 70~99.9% by weight of
alcohol.

6. A fuel composition for colored flames according to any one of claims 1 to 4, wherein the fire power enhancer comprises butanol, hexane, hexanol or acetone.

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7. A device for colored flame comprising:

a fuel reservoir(4) where a preliminary vent valve (16), a pressure gauge (20), a fuel inlet (22), a (safety) valve (24) and a shut off valve(26) are arranged at the upper side, a drain valve(28) and a manual shut-off valve are arranged at the lower side and a number of fuel tanks according to the number of colors to embody are arranged;

a pressure feeding portion (6) having a main pressure shut-off valve(38) controlled and arranged in line (L1) to feed N₂ or air in a delivery gas tank(34) by a regulator(36) to form pressure into the above fuel tank(18);

a pressure regulating portion (8) having a pressure regulating valve (40) controlled and arranged in line(L1) between the main pressure shut-off valve(6) and the shut-off valve (26) of the fuel tank (18) in the fuel reservoir(4);

an injection combustion portion (10) having a injection nozzle (46) comprising a number of solenoid valves according to the number of colors to embody and branch connected to line (L3) of a manual shut off valve (30) in

said fuel reservoir(4) to control amount of fuel and an ignition plug (44) for flame at one side of the injection nozzle (46);

a control device (12) electronically connected to
5 control the above main pressure shut off valve (38), the pressure control valve (4), the solenoid valve (42) and the ignition plug (44) according to pre-established data.